



**CIP Project Updates**  
**Water Engineering**  
March 12, 2024 | Tim Kuhns

# Agenda

- CIP # 132016 – North Service Center Improvements
- CIP # 115001 – Waterworks Park Yard Piping Replacement and Water Production Flow Metering
- CIP # 122003 – Northeast Flow Control Facility

# Water CIP Project STATUS

**CIP #: 132016**      **North Service Center Improvements**

Project Manager: Tim Kuhns

Project Delivery Method: Design-Bid-Build

Project Status: Design Phase

CIP Score: 98.7

We Are Here



Contract	Contractor	Contract Amount	Earned Value	% Complete	Start	End	% Elapsed Time
<ul style="list-style-type: none"> <li>• 2004674 (Design)</li> <li>• TBD (Construction)</li> </ul>	<ul style="list-style-type: none"> <li>• CDM</li> <li>• TBD</li> </ul>	<ul style="list-style-type: none"> <li>• \$14,831,090</li> <li>• TBD</li> </ul>	<ul style="list-style-type: none"> <li>• \$1,400,000</li> <li>• TBD</li> </ul>	<ul style="list-style-type: none"> <li>• 9.4%</li> <li>• TBD</li> </ul>	<ul style="list-style-type: none"> <li>• October 28, 2022</li> <li>• TBD</li> </ul>	<ul style="list-style-type: none"> <li>• October 16, 2029</li> <li>• TBD</li> </ul>	<ul style="list-style-type: none"> <li>• 19.2%</li> <li>• TBD</li> </ul>

# Water CIP Project INFO

CIP #: 132016 North Service Center Improvements

## 💧 Project Scope of Work / Goals

- 💧 Replace line pumping equipment.
- 💧 Replace medium voltage electrical system.
- 💧 Upgrade yard piping.
- 💧 Replace reservoirs and reservoir pumping system.

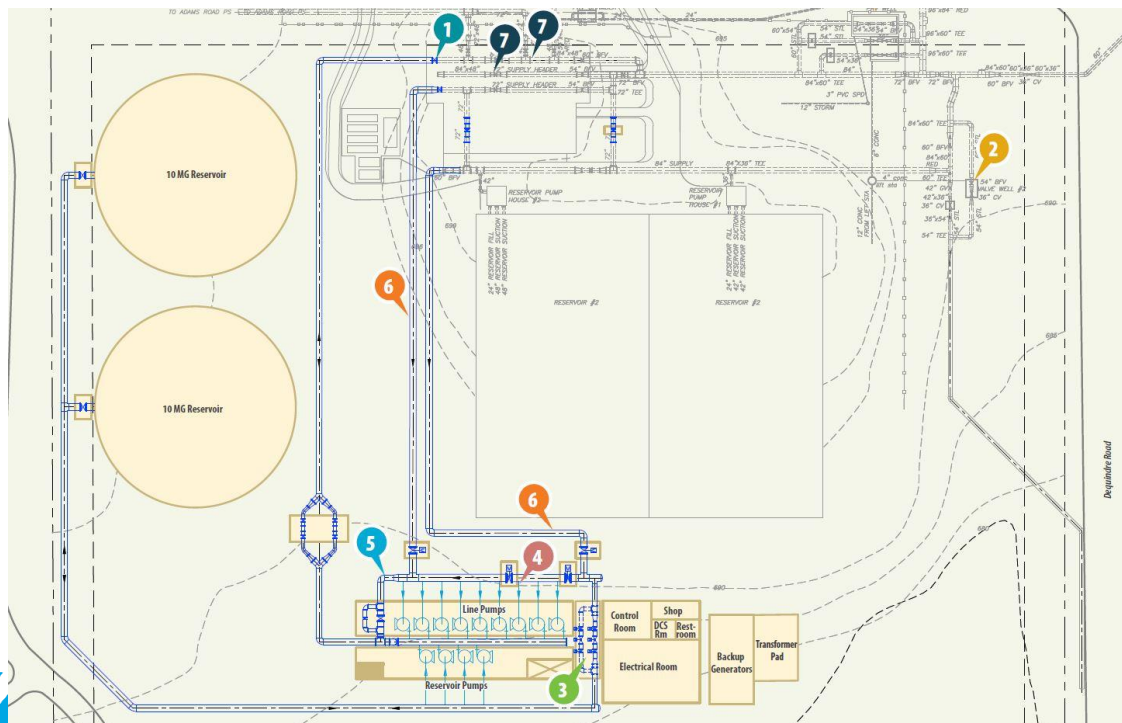
## 💧 Significance / Need / Background

- 💧 Pumping and electrical systems at end of useful service life.
- 💧 Existing 84" header/transmission main is single point of failure.
- 💧 Existing reservoirs and reservoir pumping is at end of useful service life.

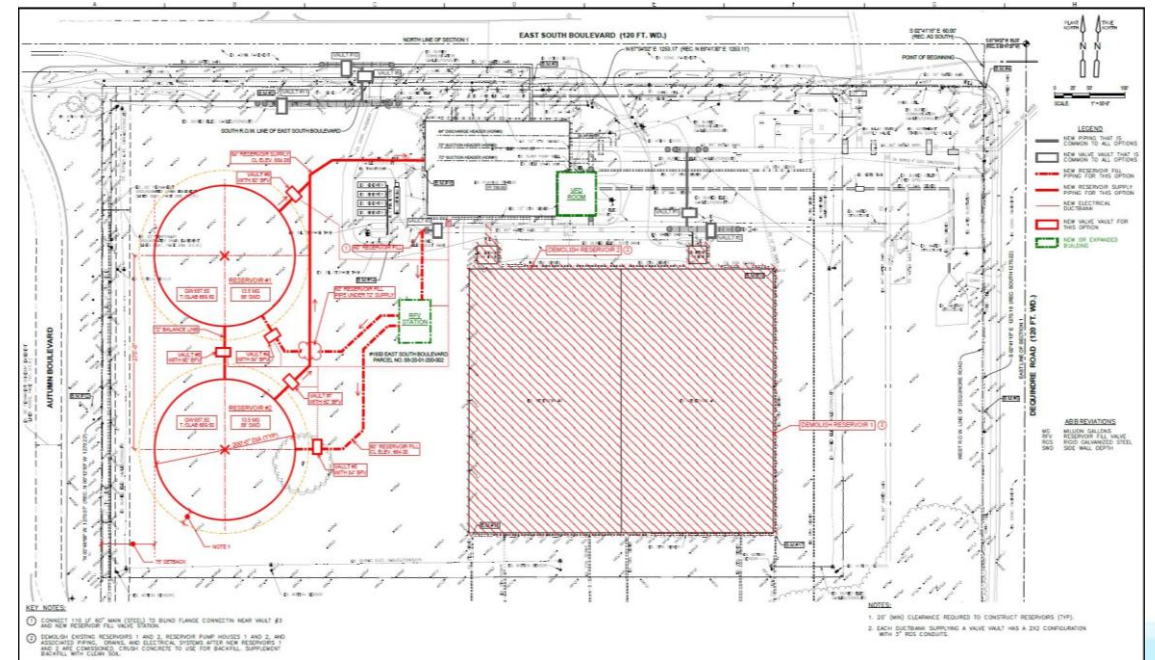
# Water CIP Project PHOTOS

CIP #: 132016 North Service Center Improvements

Original Design Concept



Current Design Concept



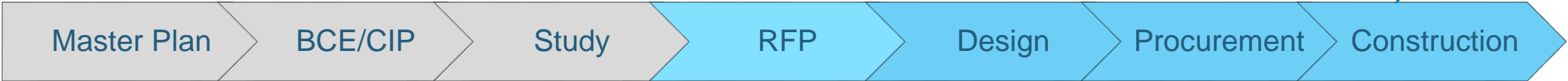


# Water CIP Project STATUS

## CIP #: 115001 Waterworks Park Yard Piping and Flow Metering

Project Manager: Michael Garrett  
 Project Delivery Method: Design-Bid-Build  
 Project Status: Construction (Build) Phase  
 CIP Score: 77.9

We Are Here



Contract	Contractor	Contract Amount	Earned Value	% Complete	Start	End	% Elapsed Time
• CS-055 (Design)	• AECOM	• \$5,598,494	• \$3,509,125	• 63%	• June 26, 2017	• March 1, 2026	• 77%
• 2000610 (Construction)	• LGC	• 49,467,913	• \$30,215,892	• 61%	• October 19, 2020	• September 13, 2025	• 69%

# Water CIP Project INFO

CIP #: 115001 Waterworks Park Yard Piping and Flow Metering

## 💧 Project Scope of Work / Goals

- 💧 Replace all yard piping on discharge side of the Waterworks Park high lift pump station.
- 💧 Replace all yard valves and production flow metering.
- 💧 Upgrade security entrance to the site.

## 💧 Significance / Need / Background

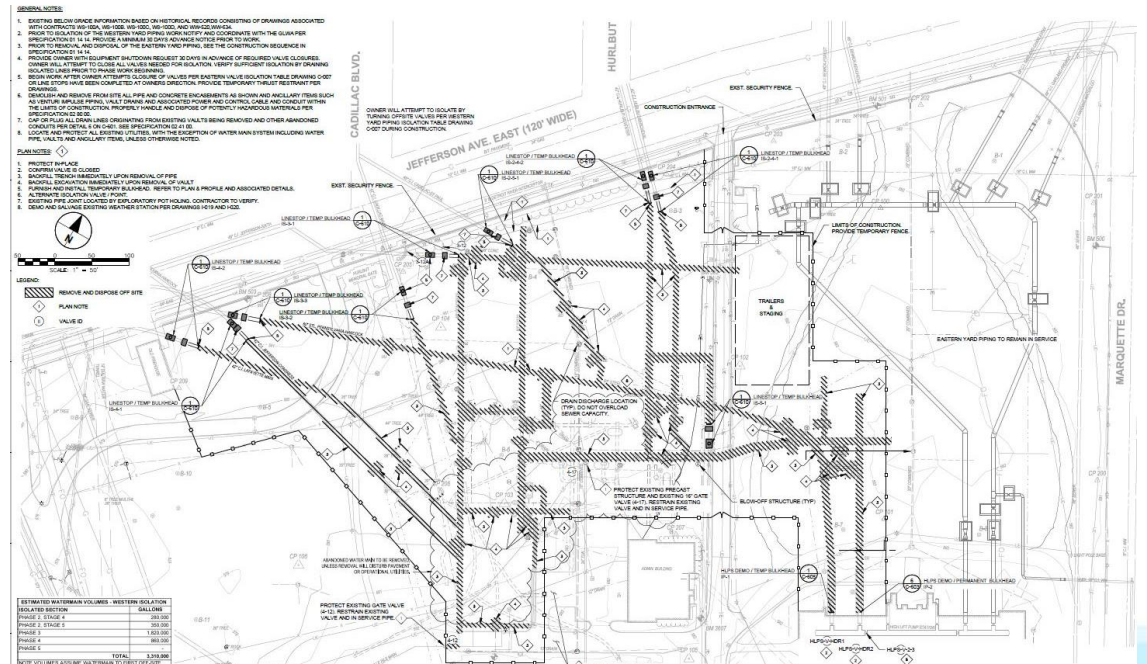
- 💧 Original yard piping from 1880s thru 1960s with frequent leaks.
- 💧 Existing production metering non-functioning.
- 💧 Existing security entrance outdated.

# Water CIP Project PHOTOS

CIP #: 115001 Waterworks Park Yard Piping and Flow Metering

M-1 Venturi Meter

Western Yard Phase



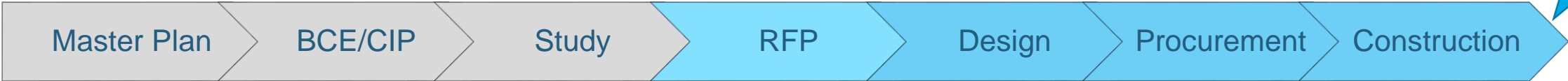


# Water CIP Project STATUS

**CIP #: 122003 Northeast Flow Control Facility**

Project Manager: Michael Garrett  
 Project Delivery Method: Design-Build  
 Project Status: Project Close Out Phase  
 CIP Score: 76.8

We Are Here



Contract	Contractor	Contract Amount	Earned Value	% Complete	Start	End	% Elapsed Time
•1803258 (Design/Build)	•Fishbeck/Walsh	•\$24,593,619	• \$24,593,619	• 100%	•September 5, 2019	•March 6, 2023	•100%

# Water CIP Project INFO

CIP #: 122003 Northeast Flow Control Facility

## 💧 Project Scope of Work / Goals

- 💧 Construct 160 MGD flow control facility at Northeast to deliver finished water from Waterworks Park and Springwells.

## 💧 Significance / Need / Background

- 💧 Original need was related to repurposing of Northeast.
- 💧 Facility is still needed to supplement flows to Northeast to minimize treatment upgrades.
- 💧 Facility still meets the intended desire to right-size Northeast by delivering finished water from other sites.

# Water CIP Project PHOTOS

CIP #: 122003 Northeast Flow Control Facility

Valve Vault in Construction



Completed Valve Vault



# Questions and Contact

**Tim Kuhns, PE**

Great Lakes Water Authority – Director Water Engineering

**P: 313-530-1826**

**E: [Timothy.Kuhns@glwater.org](mailto:Timothy.Kuhns@glwater.org)**

